

**What is claimed is:**

1) A recombinant polynucleotide selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 31,564.

2) A recombinant polypeptide selected from the group consisting of SEQ ID NO: 31,565 through SEQ ID NO: 63,128.

3) A method of producing a plant having an improved property, wherein said method comprises transforming a plant with a recombinant construct comprising a promoter region functional in a plant cell operably joined to a polynucleotide comprising a coding sequence for a polypeptide associated with said property, and growing said transformed plant, wherein said polypeptide is selected from the group consisting of:

a) a polypeptide useful for improving plant cold tolerance, wherein said polypeptide comprises a sequence identified as such in Table 1;

b) a polypeptide useful for manipulating growth rate in plant cells by modification of the cell cycle pathway, wherein said polypeptide comprises a sequence identified as such in

15 Table 1;

c) a polypeptide useful for improving plant drought tolerance, wherein said polypeptide comprises a sequence identified as such in Table 1;

d) a polypeptide useful for providing increased resistance to plant disease, wherein said polypeptide comprises a sequence identified as such in Table 1;

20 e) a polypeptide useful for galactomannan production, wherein said polynucleotide comprises a sequence identified as such in Table 1;

f) a polypeptide useful for production of plant growth regulators, wherein said polypeptide comprises a sequence identified as such in Table 1;

- g) a polypeptide useful for improving plant heat tolerance, wherein said polypeptide comprises a sequence identified as such in Table 1;
- h) a polypeptide useful for improving plant tolerance to herbicides, wherein said polypeptide comprises a sequence identified as such in Table 1;
- 5 i) a polypeptide useful for increasing the rate of homologous recombination in plants, wherein said polypeptide comprises a sequence identified as such in Table 1;
- j) a polypeptide useful for lignin production, wherein said polypeptide comprises a sequence identified as such in Table 1;
- k) a polypeptide useful for improving plant tolerance to extreme osmotic conditions,
- 10 10 wherein said polypeptide comprises a sequence identified as such in Table 1;
- l) a polypeptide useful for improving plant tolerance to pathogens or pests, wherein said polypeptide comprises a sequence identified as such in Table 1;
- m) a polypeptide useful for yield improvement by modification of photosynthesis, wherein said polynucleotide comprises a sequence identified as such in Table 1;
- 15 n) a polypeptide useful for modifying seed oil yield and/or content, wherein said polypeptide comprises a sequence identified as such in Table 1;
- o) a polypeptide useful for modifying seed protein yield and/or content, wherein said polypeptide comprises a sequence identified as such in Table 1;
- p) a polypeptide encoding a plant transcription factor, wherein said polypeptide comprises a
- 20 20 sequence identified as such in Table 1;
- q) a polypeptide useful for yield improvement by modification of carbohydrate use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1;

- r) a polypeptide useful for yield improvement by modification of nitrogen use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1;
  - s) a polypeptide useful for yield improvement by modification of phosphorus use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1; and
- 5       t) a polypeptide useful for yield improvement by providing improved plant growth and development under at least one stress condition, wherein said polypeptide comprises a sequence identified as such in Table 1.